

# PATENT ABSTRACTS OF JAPAN

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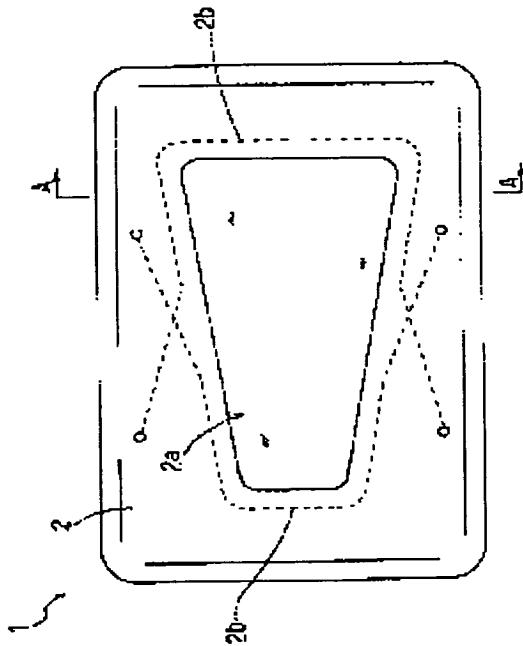
(22)Date of filing : 30.10.2000 (72)Inventor : CHO TAKESHI

## (54) DISPOSABLE DIAPER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a disposable diaper that can comfortably be used because it prevents excrement from easily sticking to the body and it prevents soft excrement or urine from easily sticking to the body.

SOLUTION: By forming a bag space 4 between an upper sheet 2 and making the whole or part of the inside of the bag space absorbent and opening the center of the upper sheet 2, the bag space is made capable of containing excrement.



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**CLAIMS**

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**[Claim(s)]**

[Claim 1] The disposable diaper which form the bag space sealed with the upper part sheet and the lower part sheet, and all or a part of insides of this bag space are made to hold absorptivity, carries out opening of the center section of said upper part sheet, and enabled it to hold excrement in bag space.

[Claim 2] The disposable diaper according to claim 1 which extended the path into which the elastic body which shrinks the periphery of opening is prepared in an upper part sheet, and the excrement between an upper part sheet and a lower part sheet advances.

[Claim 3] The disposable diaper according to claim 2 which prepared the elastic body which shrinks the periphery of the side of opening.

[Claim 4] claims 1-3 which made the outside of a lower part sheet waterproofness the bag space side of an upper part sheet -- a disposable diaper given in either.

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**DETAILED DESCRIPTION**

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**[Detailed Description of the Invention]**

[0001]

[Field of the Invention] An adult, infants, etc. who go to a rest room and cannot do elimination put on this invention, it holds excrement, and relates to the disposable diaper which can be discarded with excrement.

[0002]

[Description of the Prior Art] as for the disposable diaper, in the former, reliance was using the water absorption sheet for the body, having carried out it for obtaining. When excreted in this condition, since especially facilities adhered to a hip, those who are using it sensed them unpleasant in many cases. Moreover, in the case of the loose passage, those who use it since it adheres to a hip too or leakage occurs from a part for a back-part or a crotch until it absorbs water enough on a water absorption sheet sensed unpleasant in many cases.

[0003]

[Problem(s) to be Solved by the Invention] The technical problem which this invention tends to solve is to offer the disposable diaper which the facilities and urine which canceled and excreted these conventional troubles make it hard to adhere to a hip, and can use it comfortably, and makes it hard for a loose passage and urine to be able to absorb efficiently and to adhere to a hip, abolishes the leakage from a part for a back part or a crotch, and can be used comfortably.

[0004]

[Means for Solving the Problem] The configuration of this invention which solved this technical problem is 1. The bag space sealed with the upper part sheet and the lower part sheet is formed. Make all or a part of insides of this bag space hold absorptivity, and opening of the center section of said upper part sheet is carried out. Disposable diaper 2 which enabled it to hold excrement in bag space The elastic body which shrinks the periphery of opening is prepared in an upper part sheet. So that the path into which the excrement between an upper part sheet and a lower part sheet advances may be extended disposable diaper 3 of said one publication carried out Disposable diaper 4 of said two publication which prepared the elastic body which shrinks the periphery of the side of opening said 1-3 which made the outside of a lower part sheet waterproofness the bag space side of an upper part sheet -- it is in a disposable diaper given in either.

[0005]

[Function] In this invention, the excrement which people excreted is held in bag space through opening. Even if the facilities to which the hip held them in bag space since parts other than opening were covered with the upper part sheet adhere to an upper part sheet, adhering to a hip has them.

[ few ] Moreover, since moisture is absorbed in a large area which forms bag space since it can receive so that it may not leak, even if it flows to a part for a back part or a crotch, since it holds in saccate space, and it spreads between an upper part sheet and a lower part sheet, a loose passage and urine are efficiently absorbable. By shrinking opening, as what prepared the elastic body contracted along the periphery of opening makes the opening circumference stretch and is stuck to a hip, it guides excrement to bag space certainly. What prepared the sheet which has waterproofness in the lower part sheet bottom the bag space side of an upper part sheet It is made for the moisture absorbed to the upper part sheet exterior which is touching the hip with the waterproof sheet by the side of the bag space of an upper part sheet not to ooze out. Moreover, between an upper part sheet

and a lower part sheet, the loose passage and urine which were discharged by bag space are breadth-easy, and carry out, and he is trying for the moisture absorbed outside with the waterproof sheet of the outside of a lower part sheet not to ooze out.

[0006]

[Embodiment of the Invention] There is a thing a high-polymer absorbent, absorbent cotton, and fiber pulp were made to become a multilayer in an upper part sheet with absorptivity, and a lower part sheet, and the high thing of absorptivity is desirable. The thing of the shape of the shape of yarn which there are rubber, yarn rubber, etc. in an elastic body, and is attached so that it may sew in, and a string is desirable.

[0007]

[Example] The example of this invention is concretely explained with reference to a drawing. The example shown in drawing 1 -5 is an example of the disposable diaper which prepared the elastic body along the periphery of opening and prepared the sheet which has waterproofness in the outside of a lower part sheet the bag space side of an upper part sheet. Drawing 1 is the explanatory view showing the condition of having lengthened the yarn rubber of the disposable diaper of an example and having made the upper part sheet and the lower part sheet into the plane. Drawing 2 is the explanatory view of the disposable diaper of an example. Drawing 3 is the A-A sectional view of drawing 1. Drawing 4 and 5 are the explanatory views showing the condition of having used the disposable diaper of an example. the inside of drawing, and 1 -- a disposable diaper and 2 -- an upper part sheet and 2a -- opening and 2b -- yarn rubber and 2c -- a tarpaulin part and 2d -- an absorption band and 2e -- a surface nonwoven fabric and 3 -- a lower part sheet and 3a -- a tarpaulin part and 3b -- for bag space and 5, jointing and 10 are [ an absorption band and 3c / a surface nonwoven fabric and 4 / a diaper cover and h of excrement and 11 ] people's hips. The disposable diaper 1 of an example is using the sheet which has absorptivity in a rectangle configuration as the upper part sheet 2 and a lower part sheet 3. The upper part sheet 2 and the lower part sheet 3 are formed so that the water absorption bands 2d and 3b which have water flow nature and absorptivity with the touch high between the good surface nonwoven fabrics 2e and 3c and the tarpaulin parts 2c and 3a with waterproofness may be inserted, respectively. Besides the periphery parts of the way sheet 2 and the lower part sheet 3 are made into jointing 5, it joins, and the bag space 4 is formed. Next, drawing 1 and opening 2a which opens a part of bag space 4 as shown in 2 are prepared in the upper part sheet 2. In upper part sheet of this opening 2a periphery 2 part, it prepares so that opening 2a may be surrounded and yarn rubber 2b may be sewn in in the upper part sheet 2, as shown in drawing 1, and it is made for the periphery of opening 2a to contract into it. As yarn rubber 2b laps in the side part of opening 2a, he is trying for a shrinkage force to work strongly in the disposable diaper 1 of an example. Moreover, it is made for the tarpaulin parts 2c and 3a to be located in the outside of the lower part sheet 3 the bag space side of the upper part sheet 2.

[0008] In order to use the disposable diaper 1 of this example, it fixes to Hip h with a diaper cover 11 so that the periphery of opening 2a may carry out the method location of a wrap of the surroundings of the anus of Hip h, as shown in drawing 3 and 4. Since yarn rubber 2b to shrink is attached in the periphery of opening 2a, the upper part sheet 2 will be paid well and stretched, without curving to the lower part sheet 3 which curves along with the inside of a diaper cover 11. Therefore, the upper part sheet 2 will be stuck to Hip h. Moreover, thereby, the bag space 4 becomes large. If people excrete in this condition, facilities and urine will be held in the big bag space 4 through opening 2a. Since the facilities and urine which were held in the bag space 4 between the upper part sheet 2 and the lower part sheet 3 adhere to the inferior surface of tongue of the upper part sheet 2 even if they may move up, it is hard to carry out the reattachment of them to Hip h. Moreover, since excrement is discharged to this bag space 4, and neither facilities nor urine adheres to Hip h or does not leak from a part for a back part or a crotch immediately like before, those who use it can use it with a sufficient temper, and are very comfortable. Moreover, in case a loose passage and urine are discharged and a loose passage and urine are held in the bag space 4 from opening 2a, it comes to absorb in respect of being larger by establishing the bag space 4 in adhesion at Hip h compared with the former attached in the near condition. Therefore, since it is efficiently absorbable, before being absorbed, what carries out the reattachment to Hip h in the condition of having collected stops being able to happen easily, and horizontal leakage stops being able to happen further easily. Moreover, since tarpaulin partial 2c is

prepared in the inferior surface of tongue of the upper part sheet 2, it is hard to carry out the reattachment to Hip h. Therefore, those who use it can use it with a sufficient temper, and are very comfortable. Moreover, if it is a part in contact with the upper part sheet 2 even if a loose passage and urine carry out the reattachment to a hip, since the upper part sheet of the upper part sheet 2 does not remain absorbing and adhering with the upper part sheet 2 since it had become a field with absorptivity, it is still more comfortable. It seems that moreover, it oozes out to the upper part sheet 2 up side, and he oozes out on the outside of the lower part sheet 3, and is trying to carry out the reattachment to Hip h, or not to adhere to a diaper cover 11 since tarpaulin partial 2c is prepared in the bag space side of the upper part sheet 2, and the outside of the lower part sheet 3. After discharging excrement, as it removes from the body, it is used changing with a new object. The removed disposable diaper 1 is discarded. Thus, if the disposable diaper 1 of this example is used, it can be used very comfortably, without leakage soiling clothes, bedding, etc. owing to.

[0009] It is other examples of the disposable diaper of an example which are shown in drawing 6 - 10. You may make it change the die-length location of yarn rubber 2b, and a number so that the condition of shrinking an opening periphery may be changed as shown in drawing 6 -8. It is other examples of the disposable diaper of an example which are shown in drawing 9 . Thus, a diaper cover 11 and the disposable diaper 1 may be made into the structure made into one. It is other examples of the disposable diaper of an example which are shown in drawing 10 . Opening for facilities and 6b of 6a are openings for urine among drawing. In other examples of the example shown in drawing 10 , opening 6a for facilities and opening 6b for urine are provided so that opening to the bag space 4 of the upper part sheet 2 may be mostly divided into the object for facilities, and urine. Thus, the configuration of opening may be changed corresponding to facility and the purpose.

[0010]

[Effect of the Invention] According to this invention, the facilities and urine which were excreted can make it hard to adhere to the body, and it can be used comfortably, and it can absorb efficiently, it is made hard to adhere to the body, and as neither a loose passage nor urine leaks from a part for a back part or a crotch, it can use it comfortably. As it enables it to excrete certainly what prepared the elastic body contracted along the periphery of opening in bag space, and it extends bag space and can absorb it more efficiently, it enables it to use it still more comfortably.

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## DESCRIPTION OF DRAWINGS

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### [Brief Description of the Drawings]

[Drawing 1] It is the explanatory view showing the condition of having lengthened the yarn rubber of the disposable diaper of an example and having made the upper part sheet and the lower part sheet into the plane.

[Drawing 2] It is the explanatory view of the disposable diaper of an example.

[Drawing 3] It is the A-A sectional view of drawing 1.

[Drawing 4] It is the explanatory view showing the condition of having used the disposable diaper of an example.

[Drawing 5] It is the explanatory view showing the condition of having used the disposable diaper of an example.

[Drawing 6] It is the explanatory view showing the condition of having lengthened the yarn rubber of other examples of the disposable diaper of an example, and having made the upper part sheet Fig. and the lower part sheet Fig. into the plane.

[Drawing 7] It is the explanatory view showing the condition of having lengthened the yarn rubber of other examples of the disposable diaper of an example, and having made the upper part sheet and the lower part sheet into the plane.

[Drawing 8] It is the explanatory view showing the condition of having lengthened the yarn rubber of other examples of the disposable diaper of an example, and having made the upper part sheet and the lower part sheet into the plane.

[Drawing 9] It is the explanatory view of other examples of the disposable diaper of an example.

[Drawing 10] It is the explanatory view of other examples of the disposable diaper of an example.

### [Description of Notations]

- 1 Disposable Diaper
- 2 Upper Part Sheet
- 2a Opening
- 2b Yarn rubber
- 2c Tarpaulin part
- 2d Absorption band
- 2e Surface nonwoven fabric
- 3 Lower Part Sheet
- 3a Tarpaulin part
- 3b Absorption band
- 3c Surface nonwoven fabric
- 4 Bag Space
- 5 Jointing
- 6a Opening for facilities
- 6b Opening for urine
- 10 Excrement
- 11 Diaper Cover
- h Hip

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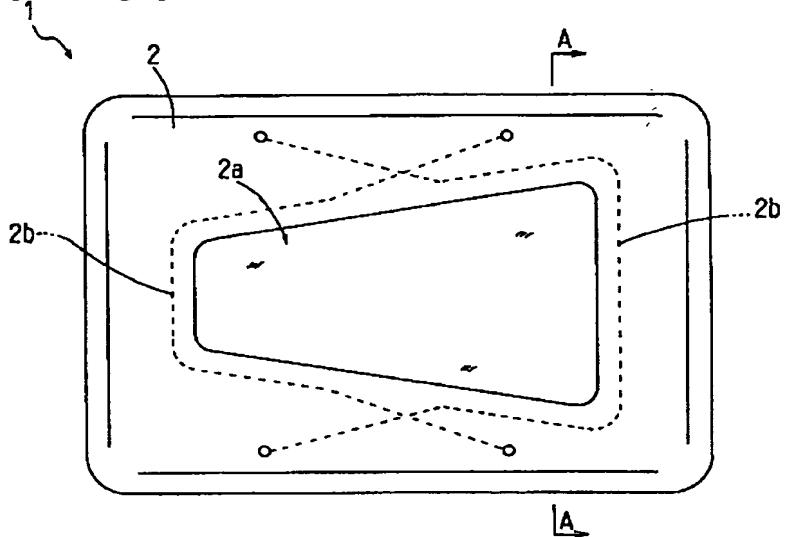
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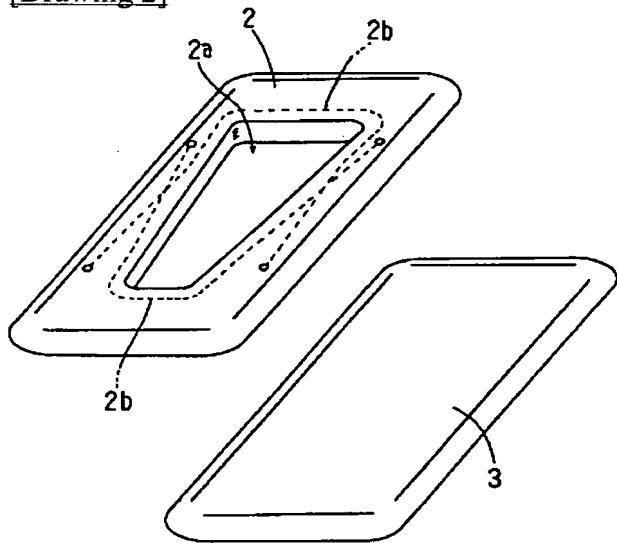
DRAWINGS

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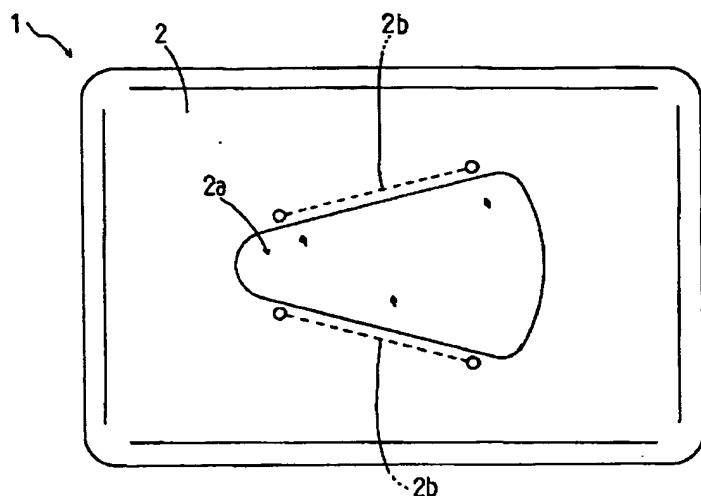
## [Drawing 1]



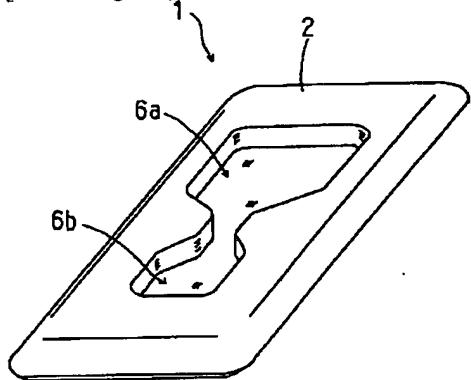
## [Drawing 2]



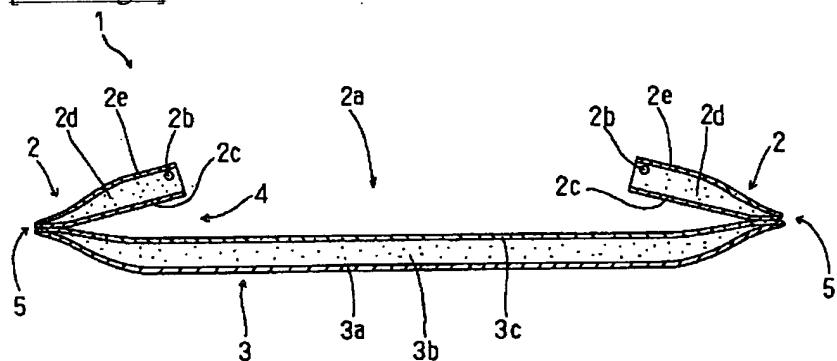
## [Drawing 6]



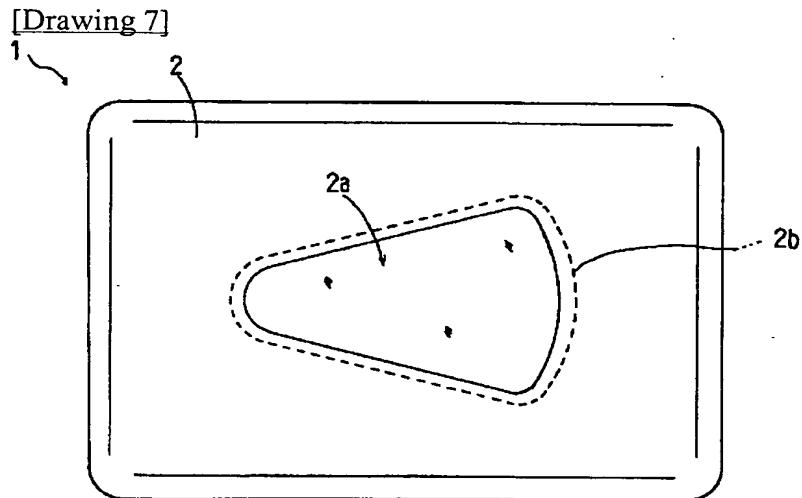
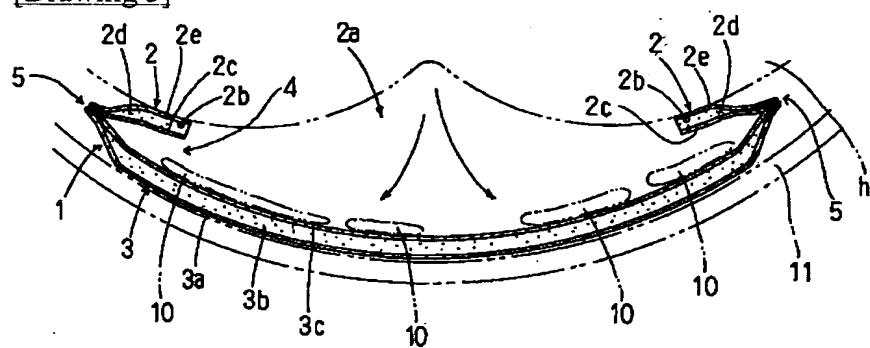
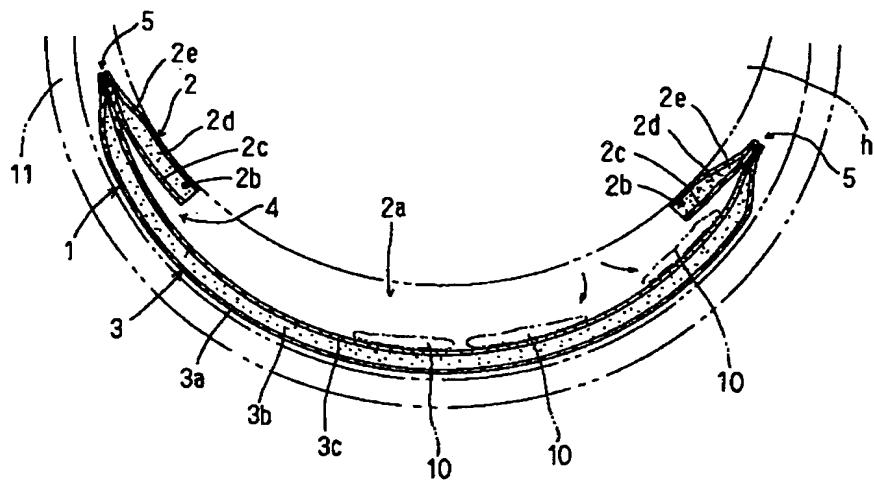
[Drawing 10]



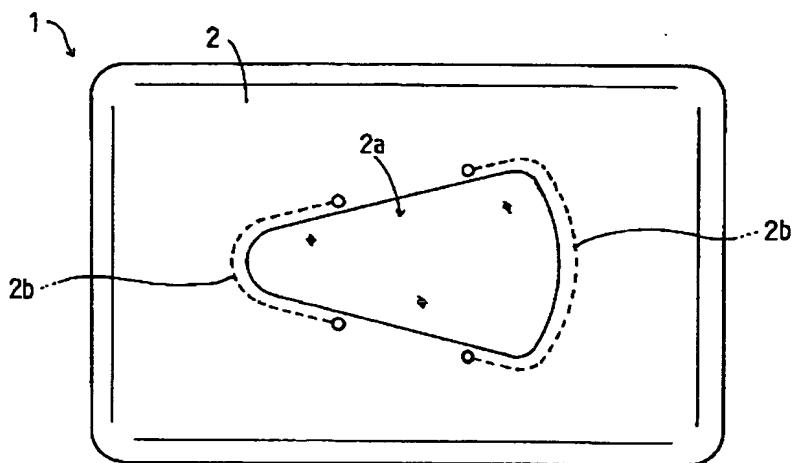
[Drawing 3]



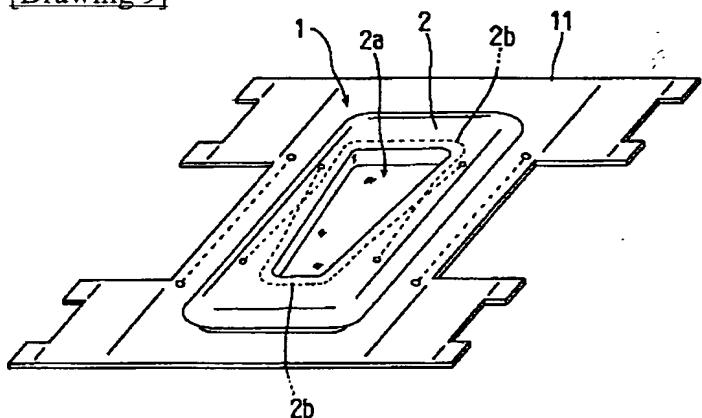
[Drawing 4]



[Drawing 8]



[Drawing 9]



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[Translation done.]

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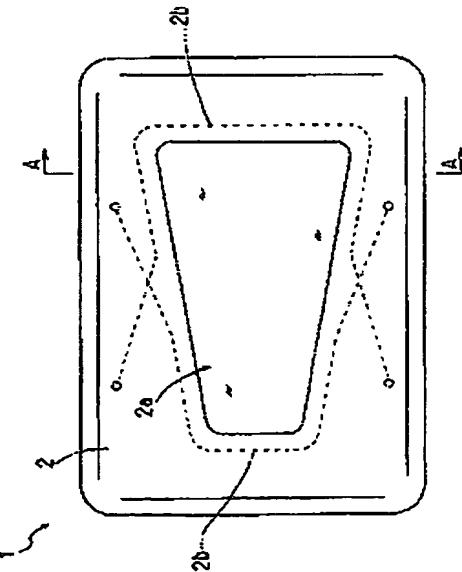
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 BD21 CA04 CB10 CB12  
 4C098 AA09 CC07 CC12 CC15 CC06

(54)【発明の名称】 使い捨ておむつ

(57)【要約】

【課題】 排泄した便が体に付着しにくくして快適に使用でき、また軟便や尿が効率よく吸収でき体に付着しにくくして快適に使用できる使い捨ておむつを提供することにある。

【解決手段】 上方シート2と下方シート3の間に密閉した袋空間4を形成し、上方シート2の中央部に開口部2aを設けた。



(2)

特開2002-136548

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## 【特許請求の範囲】

【請求項1】 上方シートと下方シートとで密閉した袋空間を形成し、同袋空間の内面の全部又は一部に吸水性を保有させ、前記上方シートの中央部を開口し、屎尿を袋空間に収容できるようにした使い捨ておむつ。

【請求項2】 開口部の周縁を収縮させる弾性体を上方シートに設け、上方シートと下方シートとの間の屎尿の進入する通路を広げるようした請求項1記載の使い捨ておむつ。

【請求項3】 開口部の側方の周縁を収縮させる弾性体を設けた請求項2記載の使い捨ておむつ。

【請求項4】 上方シートの袋空間側と下方シートの外側を防水性とした請求項1～3いずれかに記載の使い捨ておむつ。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】 本発明は便所に行って排泄ができない大人や乳幼児などが身につけて屎尿を収容して、屎尿とともに廐棄できる使い捨ておむつに関する。

## 【0002】

【従来の技術】 従来において、使い捨ておむつは吸水シートを体に当てるようにして使用していた。この状態で排泄を行うと、特に便は臀部に付着してしまうため、使用している人が不快を感じることが多かった。また、軟便の場合には、吸水シートに十分吸水されるまではやはり臀部に付着したり、背中部分や股部分から漏れが発生するために使用する人が不快に感じることが多かった。

## 【0003】

【発明が解決しようとする課題】 本発明が解決しようとする課題は、従来のこれらの問題点を解消し、排泄した便や尿が臀部に付着しにくくして快適に使用でき、また軟便や尿が効率よく吸収でき臀部に付着しにくくし、背中部分や股部分からの漏れをなくして快適に使用できる使い捨ておむつを提供することにある。

## 【0004】

【課題を解決するための手段】かかる課題を解決した本発明の構成は、

- 1) 上方シートと下方シートとで密閉した袋空間を形成し、同袋空間の内面の全部又は一部に吸水性を保有させ、前記上方シートの中央部を開口し、屎尿を袋空間に収容できるようにした使い捨ておむつ
- 2) 開口部の周縁を収縮させる弾性体を上方シートに設け、上方シートと下方シートとの間の屎尿の進入する通路を広げるようした前記1)記載の使い捨ておむつ
- 3) 開口部の側方の周縁を収縮させる弾性体を設けた前記2)記載の使い捨ておむつ
- 4) 上方シートの袋空間側と下方シートの外側を防水性とした前記1)～3)いずれかに記載の使い捨ておむつにあつ。

## 【0005】

【作用】 本発明では、人が排泄した屎尿が開口部を通って袋空間に収容されるようにする。開口部以外の部分は臀部が上方シートで覆われているので、袋空間に収容した便は、上方シートに付着しても臀部に付着することは少ない。また、軟便や尿は、袋状の空間で収容するので背中部分や股部分へ流れても漏れないように受けることができ、上方シートと下方シートの間に広がるので、袋空間を形成する広い面積で水分が吸収されるので効率よく吸収できる。開口部の周縁に沿って収縮する弾性体を設けたものは、開口部を収縮させることにより開口部周辺を張らせるようにして臀部に密着するようにして屎尿を確実に袋空間に誘導する。上方シートの袋空間側と下方シートの下側に防水性を有するシートを設けたものは、上方シートの袋空間側の防水性のシートで臀部に触れている上方シート外部に吸収した水分がしみ出すことがないようにし、また、袋空間に排出された軟便や尿が上方シートと下方シートの間で広がりやすくし、下方シートの外側の防水性のシートで外部に吸収した水分がしみ出すことがないようにしている。

## 【0006】

【発明の実施の形態】 吸水性を持つ上方シート、下方シートには、高分子吸収体や脱脂綿や微細パルプを多層になるようにしたものなどがあり、吸水性の高いものが好ましい。弾性体には、ゴムや糸ゴムなどがあり、縫い込むように取り付けられる糸状又は紐状のものが好ましい。

## 【0007】

【実施例】 本発明の実施例について図面を参照して具体的に説明する。図1～5に示す実施例は、開口部の周縁に沿って弾性体を設け、上方シートの袋空間側と下方シートの外側に防水性のあるシートを設けた使い捨ておむつの例である。図1は実施例の使い捨ておむつの糸ゴムを伸ばして上方シートと下方シートを平面状にした状態を示す説明図である。図2は実施例の使い捨ておむつの説明図である。図3は図1のA-A断面図である。図4、5は実施例の使い捨ておむつを使用した状態を示す説明図である。図中、1は使い捨ておむつ、2は上方シート、2aは開口部、2bは糸ゴム、2cは防水シート部分、2dは吸収部、2eは表面不織布、3は下方シート、3aは防水シート部分、3bは吸収部、3cは表面不織布、4は袋空間、5は接着部、10は排泄物、11はおむつカバー、12は人の臀部である。実施例の使い捨ておむつ1は長方形形状で吸水性のあるシートを上方シート2と下方シート3として使用している。上方シート2、下方シート3はそれぞれ通水性、吸水性があり、表面不織布2e、3cと防水性のある防水シート部分2c、3aの間に高い吸水性を有する吸収部2d、3bを挟むように設けたものである。この上方シート2と下方シート3の周縁部分を接着部5とし接着して袋空間4を

(3)

特開2002-136548

3

形成する。次に上方シート2に図1、2に示すように袋空間4の一部を開放する開口部2aを設ける。この開口部2a周縁の上方シート2部分には、図1に示すように開口部2aを囲むように糸ゴム2bを上方シート2内に縫い込むように設けて開口部2aの周縁が収縮するようになる。実施例の使い捨ておむつ1では、開口部2aの側方部分で糸ゴム2bが重なるようにして強く収縮力を働くようにしている。また、上方シート2の袋空間側と下方シート3の外側に防水シート部分2c、3aが位置するようになる。

【0008】本実施例の使い捨ておむつ1を使用するには、図3、4に示すように開口部2aの周縁が臀部hの肛門のまわりを覆うよう位置するように、おむつかバーハー11によって臀部hに固定する。開口部2aの周縁には、収縮させる糸ゴム2bを取り付けているので、上方シート2はおむつかバーハー11の内側に沿って湾曲する下方シート3に対して湾曲せずに引き合って張った状態にならうとする。よって、臀部hに上方シート2は密着することになる。また、これにより袋空間4は大きくなる。この状態で人が排泄すると、便及び尿は、開口部2aを追って大きな袋空間4に収容される。上方シート2と下方シート3の間の袋空間4に収容された便及び尿は、上方に移動するようなことがあっても上方シート2の下面に付着するので、臀部hに再付着しにくい。また、この袋空間4に排泄物を排出するので、従来のようにすぐに便や尿が臀部hに付着したり、背中部分や股部分から漏れることがないので、使用する人が気分よく使用でき非常に快適である。また、軟便や尿を排出し、軟便や尿が開口部2aから袋空間4に収容される際には、臀部hに密着に近い状態で取り付けられる従来に比べて、袋空間4を設けることにより、より広い面で吸収するようになる。よって効率的に吸収できるので、吸収される前に溜まつた状態で臀部hに再付着するようなことが起こりにくくなり、また横漏れがさらに起こりにくくなる。また、上方シート2の下面には防水シート部分2cが設けられているので、臀部hに再付着しにくい。よって使用する人が気分よく使用でき非常に快適である。また、もし軟便や尿が臀部に再付着しても、上方シート2に接触する部分であれば、上方シート2の上方シートは吸水性のある面になっているので上方シート2で吸収して、付着したままにならないのでさらに快適である。また、上方シート2の袋空間側及び下方シート3の外側には防水シート部分2cを設けているので上方シート2の上側にしみ出して臀部hに再付着したり、下方シート3の外側にしみ出しておむつかバーハー11に付着するようなことがないようにしている。排泄物を排出した後には、体から取りはずすようにして新しい物と付け替えて使用する。取りはずした使い捨ておむつ1は廃棄する。このように本実施例の使い捨ておむつ1を使用すれば、漏れが原因で衣服や寝具等を汚すことなく非常に快適に

4

使用できる。

【0009】図6～10に示すのは実施例の使い捨ておむつの他の例である。図6～8に示すように、開口部周縁を収縮させる状態を変えるように糸ゴム2bの長さ位置、数を変えるようにしてよい。図9に示すのは実施例の使い捨ておむつの他の例である。このようにおむつかバー11と使い捨ておむつ1を一体とする構造にしてもよい。図10に示すのは実施例の使い捨ておむつの他の例である。図中、6aは尿用開口部、6bは尿用開口部である。図10に示す実施例の他の例では、上方シート2の袋空間4への開口部を尿用と尿用に分けるように尿用開口部6aと尿用開口部6bを設けている。このように開口部の形状を使いやすさ、目的に対応して変更してもよい。

【0010】

【発明の効果】本発明によれば、排泄した便や尿が体に付着しにくくして快適に使用でき、また軟便や尿が効率よく吸収でき体に付着しにくくし、背中部分や股部分から漏れないようにして快適に使用できる。開口部の周縁に沿って収縮する弾性体を設けたものは、確実に袋空間内に排泄できるようにし、また、袋空間を広げるようにしてより効率的に吸収できるようにしてさらに快適に使用できるようになる。

【図面の簡単な説明】

【図1】実施例の使い捨ておむつの糸ゴムを伸ばして上方シートと下方シートを平面状にした状態を示す説明図である。

【図2】実施例の使い捨ておむつの説明図である。

【図3】図1のA-A断面図である。

【図4】実施例の使い捨ておむつを使用した状態を示す説明図である。

【図5】実施例の使い捨ておむつを使用した状態を示す説明図である。

【図6】実施例の使い捨ておむつの他の例の糸ゴムを伸ばして上方シートと下方シートを平面状にした状態を示す説明図である。

【図7】実施例の使い捨ておむつの他の例の糸ゴムを伸ばして上方シートと下方シートを平面状にした状態を示す説明図である。

【図8】実施例の使い捨ておむつの他の例の糸ゴムを伸ばして上方シートと下方シートを平面状にした状態を示す説明図である。

【図9】実施例の使い捨ておむつの他の例の説明図である。

【図10】実施例の使い捨ておむつの他の例の説明図である。

【符号の説明】

1 使い捨ておむつ

2 上方シート

50 2a 開口部

(4)

特開2002-136548

5

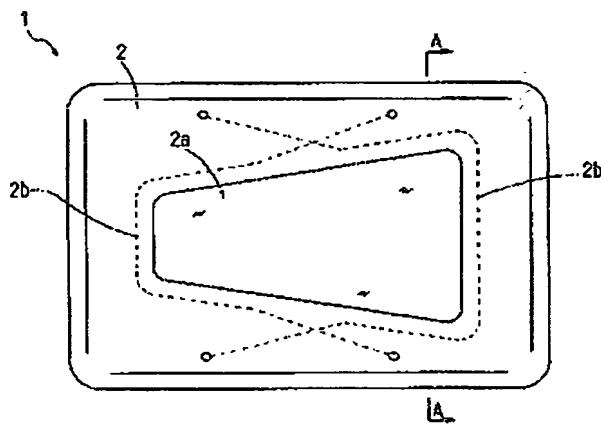
6

2 b ポジゴム  
 2 c 防水シート部分  
 2 d 吸収部  
 2 e 表面不織布  
 3 下方シート  
 3 a 防水シート部分  
 3 b 吸収部  
 3 c 表面不織布

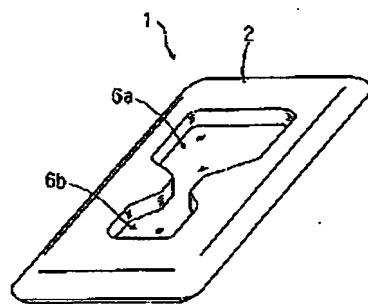
\* 4 瓶空間  
 5 粘着部  
 6 a 便用開口部  
 6 b 尿用開口部  
 10 排泄物  
 11 おむつカバー  
 h 齢部

\*

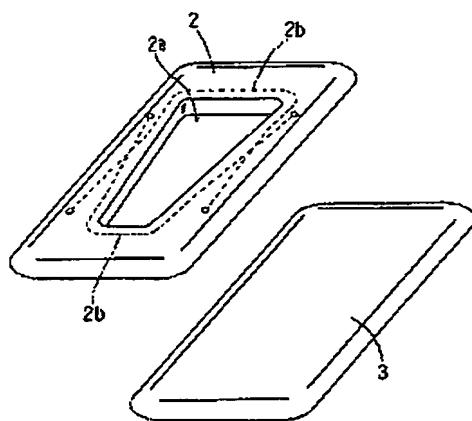
【図1】



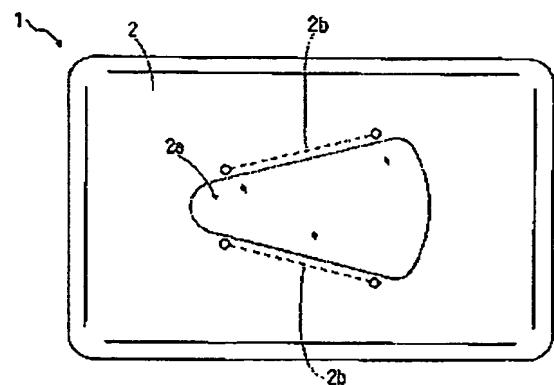
【図10】



【図2】



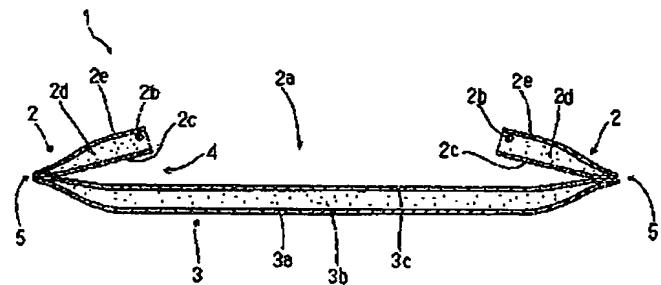
【図6】



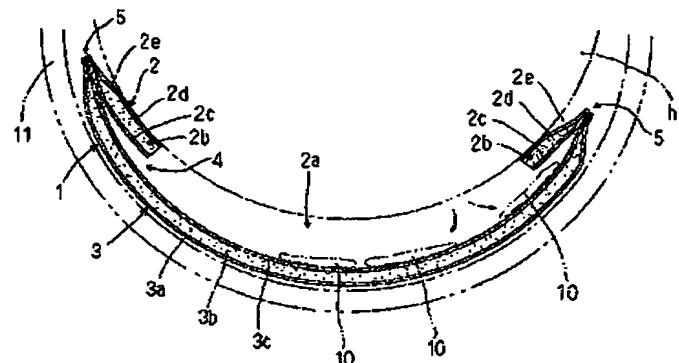
(5)

特開2002-136548

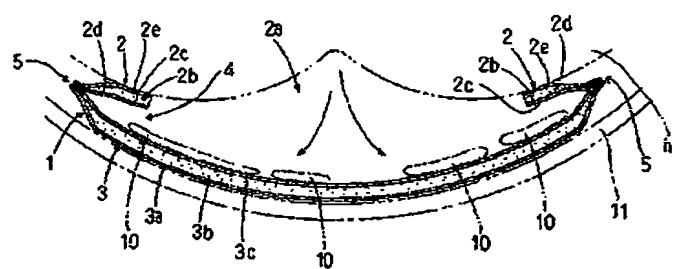
【図3】



【図4】



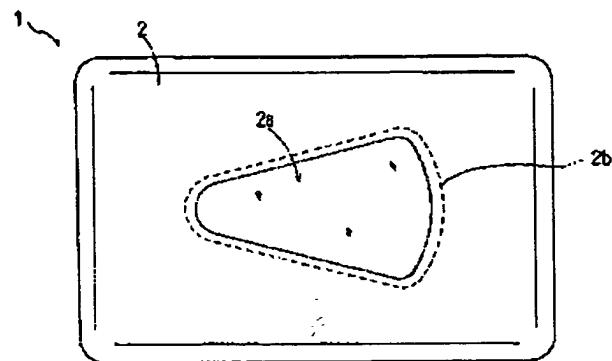
【図5】



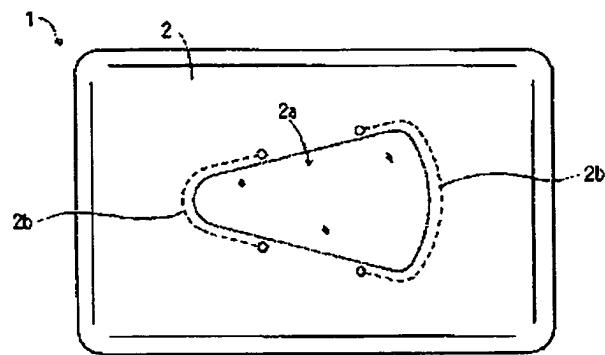
(5)

特開2002-136548

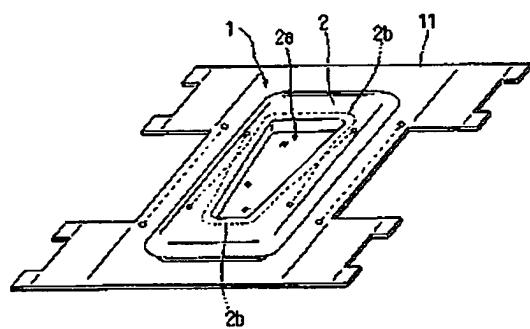
【図7】



【図8】



【図9】



(7)

特開2002-136548

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